

TOTEM 40 LIGHTING COLUMN

TOTEM combines a unique design with integrated panels within the structure, striking a perfect balance between elegance and performance. Equipped with SHINGLED PERC solar cells, the solar column can charge under both the sun and cloudy weather, always ensuring an optimal lighting all year long.

NOMINAL FLUX 7840 LUMENS
NOMINAL POWER 40 WATTS
LIGHTING
Efficiency
Chips LED
LED lifetime Over 80 000 hours LM80
Optics/CCT
Light Height
BATTERY
TechnologyLithium Iron Phosphate LIFEPO4
Capacity
Autonomy Over 24 hours at full charge - 4 Rainy Days back up
Charging time
Lifespan
Working temp 14°F to 158°F (optional -40°F to 158°F) -10°C to 70 °C - (optional -40°C TO 70 °C)
ENERGY
Solar panel
Cells type
Certificates
ELECTRONIC
Controller
Sensor Microwave 180° Sensor
Cabling Waterproof Connector, Plug and Play
Protection
MECHANICAL
Wind speed
Material
DIMENSIONS
Product
Carton size
Net Weight
Gross Weight
Product code TT-40
Solux retains the right to modify or change product specifications without prior notice, as part of our ongoing commitment to improvement
Places Pathways Secondary Roads Campsites

CERTIFICATIONS

Parks & gardens

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE



* Solux offers a 5 Year Limited Warranty for the TOTEM-Series luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Solux instructions. Fixture suitable for ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

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Pedestrian

street



991 South Gull Lake Dr Richland, MI 49083 US USA



LUMINAIRE HOUSING & LEDS

7840 LUMENS 2300 TO 6500K

High pressure die-cast low-copper aluminum. **Protection class** (IP65). Solux uses a high quality Polyester Powder Coating from **AKZO NOBEL.** This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention for this product.

Our Luminaire is equipped with **PHILIPS LUXEON HE PLUS** High efficiency Chips offering and overall **196 Lumens per Watt efficacy**.

Our lighting fixture also complies with the current standards regarding light pollution ULR (Upward Light Ratio).



▶ LED 3030 | LED

LED QTY (PCS) 72

OPTICS (PCS) 4

CRI > 70

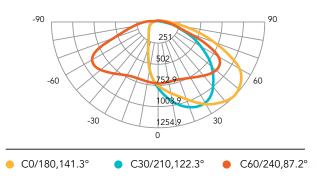


LIGHTING DISTRIBUTION



LIGHT DISTRIBUTION CURVES

AVERAGE BEAM ANGLE (50%): 106,2 DEG



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BATTERY LIFEPO4

OVER 10 YEARS LIFESPAN

The TOTEM series is equiped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be the best chemical technology for solar application on the market.

With a cycle life of over 3000 Cycles @ 80% DOD, the battery enjoys lifespan of over 10 years.



14°F to 158°F (- 40 °F OPTIONAL) -10 °C TO 70 °C (-40 °C OPTIONAL)

When Standard Lithium LiFePo4 batteries enjoy a working temperature range from 14°F to 158°F (-10°C TO 70 °C). Solux offers as optional a new Special LIFEPO4 battery with working range of -40°F to 158°F (-40 °C. to 70 °C).

EASY MAINTENANCE & ANTI THEFT SCREWS

Easy and direct access to the battery casing for maintenance. The fixation are made with anti theft screws, which request special tooling to unscrew.

ALUMINUM BOX

High temperatures greatly affect the lifespan of batteries. To solve this problem, our batteries are placed in a sealed extruded aluminum box, which is known for its heat dissipation properties

BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with **electronic circuit boards for a higher protection**, ensuring battery functioning optimization no matter the situation.

The BMS Protects against:



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• OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE • OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

LIFETIME & CYCLES AT 80% DOD* Lead Acid NimH Lithium ION Lithium LifePO4 Comparisons of different 200 700 800 battery technologies 70° = 158°F 149°F CHARGING TEMPERATURE 509 122°F 309 86°F RANGE WITHOUT CAPACITY -10 _ 14°F LOSS 14°F -10° 14°F -10° 14°F -10 Minimum & Maximum temperature range for Optimal charing during the day Lithium Lead Acid NimH Lithium ION

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SOLAR PANEL

195 WATTS

For high performance and a sleek design, the TOTEM lights are equipped with **SHINGLED PERC** photovoltaic technolo-gy, providing very high efficiency, as well as **improved perfor-mance in low irradiation**. It allows maximizing the installed power in a limited space.

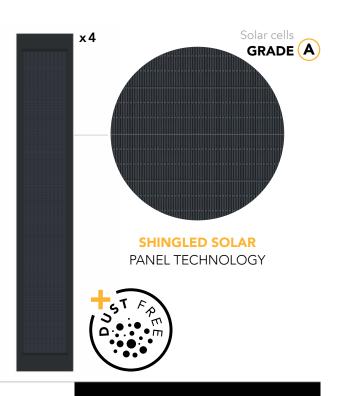
SHINGLED PERC ADVANTAGES

POWER LOSS DUE TO SHADING

Conventional panel - 40%
SHINGLED PERC

DISCRETION

With no visible connections or circuits, TOTEM is fully integrated into its environment and most people will not notice the presence of solar panels.



CONTROLLER MPPT



In a search for performance and reliability, our products are equipped with MPPT technology controller offering the best charging efficiency on the market up to 98%

REMOTE CONTROL MONITORING

In order to facilitate all maintenance operations and above all to diagnose any possible problem, without having to intervene mechanically on the luminaire, Solux luminaires are equipped with a wireless diagnostic system via remote control



With a simple click it is possible to have real-time information such as:

- Automatic diagnosis in case of malfunction
- State of charge and battery history
- Real Time load and solar panel energy production history
- Age of the product and installation
- Temperature and its history

FEATURES

- Minimal stand-by power consumption
- Current consumption ≤ 10mA
- Intelligent battery management3 Phases charging:
 - Charge MPPTT
 - Constant voltage
 - Floating voltage
- Intelligent LED driver Auto detecting of Dusk and Dawn for automatic operation, 7 Lighting Programs Configuration.
- ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.
- The controller also acts against:
 - OVERLOAD
 - OVERCURRENT
 - OVERTEMPERATURE
 - OVERVOLTAGE / OVERLOAD
 - OVERDISCHARGE

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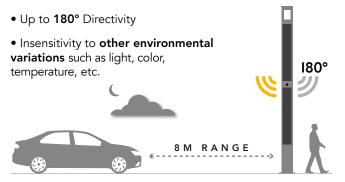


MOTION SENSOR MICROWAVE

Solux luminaires are equipped with microwave detectors. The microwave detectors that use the **Doppler effect** (like car radars) to detect a nearby objects and measure the distance. The sensor emits a high frequency wave to reflect off of and analyze the objects in the vicinity.

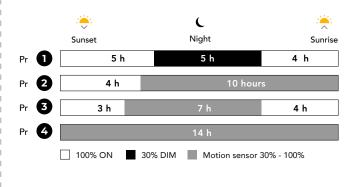
Since the microwaves **only detect speci ic objects,** detection reliability increases resulting in :

• Much better reliability compared to the Infrared detector



OPERATION MODE & LIGHTING SCHEDULE

In addition to automatic switching on and off , you have the possibility of choosing among **different modular operating modes** according to the needs of the project



CONTACT US FOR MORE PROGRAM OPTIONS

SOLUX BRIDGE

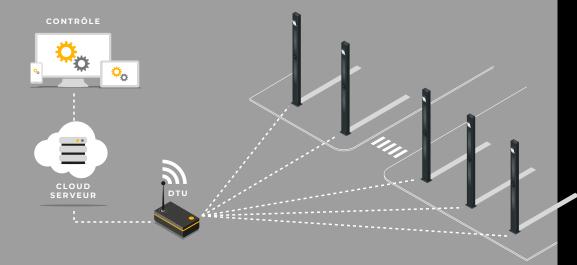
REMOTE MONITORING

As part of his continuous effort for development, the solux team is proud to have developed a special tool for **remote monitoring** of our solar street light. **Solux Bridge** uses low frequency technology LORA or ZIGBEE to **monitor in real time a batch of solar street lights.**

YOU CAN NOW MANAGE YOUR SOLAR PARK REMOTELY:









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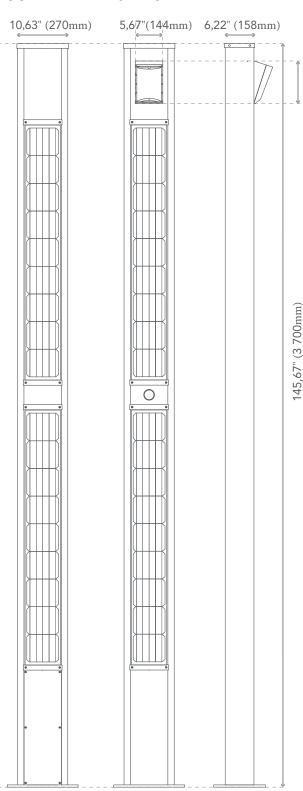


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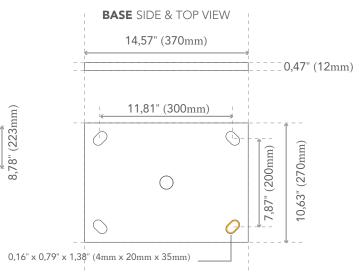


DIMENSIONS*

SOLAR PANEL & BASE



14,57" (370mm)



EASY INSTALLATION

TOTEM is delivered in a single piece which makes it extremely easy to install.

NO WIRING NO TRENCHES

You just need to insert the base onto the anchoring rods previously cast into a concrete foundation.



*All dimensions are in mm

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12,20" (310mm)

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Due to the dynamic nature of lighting products and the associated technologies, luminaire data on all sheet sheets is subject to change at the discretion of Gordon Bullard LLC and associated companies.

14,57" (370mm)